



Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-04-30-75 **Date:** 02-01-2019
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains of Balaji Layout Amruthahalli in Ward .07, Byatarayanapura.
Agency : Sri.B.Girish, #227, 32 A Cross, 7th Block, Jayanagara, Bangalore-560011.
Customer's Reference : BBMP/EE/BTP/WO/129/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 28-12-2018
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
Date of test : 29-12-2018
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.22	—
2	Finess by Air permeability method (m ² /kg, Min)	289.5	225m ² /kg, Min
3	Density (gm/cc)	3.11	—
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R KARTHIK RECHAN

Authorized Signatory
Quality Manager

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****End of Report****





TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-04-30-75 **Date:** 28-01-2019

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Balaji Layout Amruthahalli in Ward .07, Byatarayanapura.

Agency : Sri.B.Girish, #227, 32 A Cross, 7th Block, Jayanagara, Bangalore-560011.

Customer's Reference : BBMP/EE/BTP/WO/129/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-2018

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 29-12-2018

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

Note:

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AE (124)

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Quality Manager

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****End of Report****





TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-04-30-75 **Date:** 02-01-2019

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Balaji Layout Amruthahalli in Ward .07, Byatarayanapura.

Agency : Sri.B.Girish, #227, 32 A Cross, 7th Block, Jayanagara, Bangalore-560011.

Customer's Reference : BBMP/EE/BTP/WO/129/2018-19

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 28-12-2018

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 28-12-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	242	242	1.6	98.4	90-100
3	20 mm	7152	7394	49.3	50.7	30-70
4	10 mm	3885	11279	75.2	24.8	10-35
5	4.75 mm	3205	14484	96.6	3.4	0-5
6	Pan	516	15000	100.0	0	---





TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-04-30-75

Date: 02-01-2019

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.63	—
4	Bulk Density(Loose) (Kg/l)	1.43	—
5	Bulk Density(Compacted) (Kg/l)	1.48	—
6	Water Absorption(%)	0.18	—

Note:

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Authorized Signatory
Quality Manager



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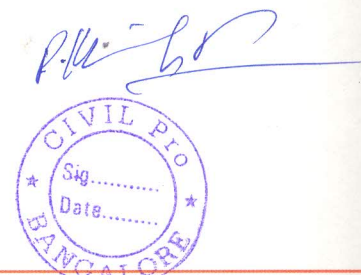
TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-04-30-75 **Date:** 02-01-2019
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains of Balaji Layout Amruthahalli in Ward .07, Byatarayanapura.
Agency : Sri.B.Girish, #227, 32 A Cross, 7th Block, Jayanagara, Bangalore-560011.
Customer Reference : BBMP/EE/BTP/WO/129/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 28-12-2018
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 28-12-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	272	272	5.4	94.6	90-100
3	10 mm	2758	3030	60.6	39.4	25-55
4	4.75 mm	1759	4789	95.8	4.2	0-10
5	Pan	211	5000	100	0	-





TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2019-04-30-75

Date: 02-01-2019

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.6	
3	Specific Gravity	2.63	—
4	Bulk Density(Loose) (Kg/l)	1.45	—
5	Bulk Density(Compacted) (Kg/l)	1.51	—
6	Water Absorption(%)	0.22	—
7	Aggregate crushing Value(%)	22.2	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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End of Report





TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-04-30-75 Date: 02-01-2019
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains of Balaji Layout Amruthahalli in Ward .07, Byatarayanapura.
Agency : Sri.B.Girish, #227, 32 A Cross, 7th Block, Jayanagara, Bangalore-560011.
Customer's Reference : BBMP/EE/BTP/WO/129/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 28-12-2018
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 28-12-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II





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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-04-30-75

Date: 02-01-2019

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	—
2	Specific Gravity	2.59	—
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager



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****End of Report****



TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-30-75 **Date:** 22/01/2019

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Balaji Layout Amruthahalli in Ward .07, Byatarayanapura.

Agency : Sri.B.Girish, #227, 32 A Cross, 7th Block, Jayanagara, Bangalore-560011.

Customer's Reference : BBMP/EE/BTP/WO/129/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-01-2019

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M20	15/01/2019	22/01/2019	150.59 X	22533	8.436	416.6	18.5	18.6
					149.63 X					
					151.27					
2	Cement Concrete Pavement	M20	15/01/2019	22/01/2019	149.91 X	22429	8.775	415.7	18.5	
					149.62 X					
					149.33					
3	Cement Concrete Pavement	M20	15/01/2019	22/01/2019	149.81 X	22567	8.015	427.0	18.9	
					150.64 X					
					152.00					

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-30-75 Date: 12/02/2019
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains of Balaji Layout Amruthahalli in Ward .07, Byatarayanapura.
Agency : Sri.B.Girish, #227, 32 A Cross, 7th Block, Jayanagara, Bangalore-560011.
Customer's Reference : BBMP/EE/BTP/WO/129/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-01-2019
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M20	15/01/2019	12/02/2019	149.69 X	22567	8.842	526.5	23.3	23.3
					150.76 X					
					149.72					
2	Cement Concrete Pavement	M20	15/01/2019	12/02/2019	150.20 X	22679	8.476	511.9	22.6	
					150.99 X					
					151.21					
3	Cement Concrete Pavement	M20	15/01/2019	12/02/2019	151.57 X	23002	8.184	549.3	23.9	
					151.75 X					
					151.46					

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12/02/19
AE(KR)

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Quality Manager



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****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-30-75 **Date:** 22/01/2019

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Balaji Layout Amruthahalli in Ward .07, Byatarayanapura.

Agency : Sri.B.Girish, #227, 32 A Cross, 7th Block, Jayanagara, Bangalore-560011.

Customer's Reference : BBMP/EE/BTP/WO/129/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-01-2019

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Cement Concrete Pavement	M20	15/01/2019	22/01/2019	151.24 X 149.43 X 150.85	22599	8.436	416.4	18.4	18.5
2	Cement Concrete Pavement	M20	15/01/2019	22/01/2019	150.72 X 149.49 X 150.20	22532	8.775	418.7	18.6	
3	Cement Concrete Pavement	M20	15/01/2019	22/01/2019	151.36 X 151.61 X 151.34	22947	8.015	421.4	18.4	

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16/1/19 N.D
AE (M20)

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Quality Manager



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Agency : Sri.B.Girish, #227, 32 A Cross, 7th Block, Jayanagara, Bangalore-560011.
Customer's Reference : BBMP/EE/BTP/WO/129/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-01-2019
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M20	15/01/2019	12/02/2019	149.06 X	22435	8.842	536.7	23.9	23.5
					150.51 X					
					150.23					
2	Cement Concrete Pavement	M20	15/01/2019	12/02/2019	150.25 X	22454	8.476	512.3	22.8	
					149.44 X					
					149.49					
3	Cement Concrete Pavement	M20	15/01/2019	12/02/2019	150.53 X	22581	8.184	539.8	23.9	
					150.01 X					
					149.19					

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A.E.(M)

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**TEST REPORT OF CEMENT CONCRETE CUBES**

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Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

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Agency : Sri.B.Girish, #227, 32 A Cross, 7th Block, Jayanagara, Bangalore-560011.

Customer's Reference : BBMP/EE/BTP/WO/129/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-01-2019

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Cement Concrete Pavement	M20	15/01/2019	22/01/2019	149.59 X 150.80 X 151.76	22558	8.436	410.0	18.2	18.2
2	Cement Concrete Pavement	M20	15/01/2019	22/01/2019	150.99 X 149.61 X 149.09	22590	8.775	413.7	18.3	
3	Cement Concrete Pavement	M20	15/01/2019	22/01/2019	149.74 X 150.34 X 151.25	22511	8.015	410.6	18.2	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-30-75 Date: 12/02/2019
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains of Balaji Layout Amruthahalli in Ward .07, Byatarayanapura.
Agency : Sri.B.Girish, #227, 32 A Cross, 7th Block, Jayanagara, Bangalore-560011.
Customer's Reference : BBMP/EE/BTP/WO/129/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-01-2019
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M20	15/01/2019	12/02/2019	151.20 X	22566	8.842	526.1	23.3	23.0
					149.25 X					
					151.66					
2	Cement Concrete Pavement	M20	15/01/2019	12/02/2019	151.42 X	22804	8.476	507.5	22.3	
					150.60 X					
					150.04					
3	Cement Concrete Pavement	M20	15/01/2019	12/02/2019	149.99 X	22403	8.184	522.0	23.3	
					149.36 X					
					150.12					

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

Asst. Ex. Eng. N.D.
DE (W&A)

[Signature]

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[Signature]

R KARTHIK RECHAN
Authorized Signatory
Quality Manager





TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-30-75 **Date:** 22/01/2019
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains of Balaji Layout Amruthahalli in Ward .07, Byatarayanapura.
Agency : Sri.B.Girish, #227, 32 A Cross, 7th Block, Jayanagara, Bangalore-560011.
Customer's Reference : BBMP/EE/BTP/WO/129/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-01-2019
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Cement Concrete Pavement	M20	15/01/2019	22/01/2019	149.18 X 150.26 X 151.38	22415	8.436	410.2	18.3	18.7
2	Cement Concrete Pavement	M20	15/01/2019	22/01/2019	149.24 X 150.53 X 151.62	22464	8.775	426.6	19.0	
3	Cement Concrete Pavement	M20	15/01/2019	22/01/2019	150.50 X 149.13 X 150.26	22444	8.015	424.8	18.9	

Note:

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16/01/2019
R.K.

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R KARTHIK RECHAN

Authorized Signatory

Quality Manager



**TEST REPORT OF CEMENT CONCRETE CUBES**

Lab ID : CP-2019-04-30-75 **Date:** 12/02/2019
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains of Balaji Layout Amruthahalli in Ward .07, Byatarayanapura.
Agency : Sri.B.Girish, #227, 32 A Cross, 7th Block, Jayanagara, Bangalore-560011.
Customer's Reference : BBMP/EE/BTP/WO/129/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-01-2019
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M20	15/01/2019	12/02/2019	149.23 X	22419	8.842	536.0	23.9	23.3
					150.23 X					
					151.94					
2	Cement Concrete Pavement	M20	15/01/2019	12/02/2019	151.64 X	23041	8.476	511.4	22.2	
					151.95 X					
					150.31					
3	Cement Concrete Pavement	M20	15/01/2019	12/02/2019	149.36 X	22292	8.184	527.2	23.7	
					149.25 X					
					151.30					

Note:

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ANIL N.D.
AE (L2)

[Signature]

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[Signature]
R KARTHIK RECHAN
Authorized Signatory
Quality Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-30-75 Date: 22/01/2019
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains of Balaji Layout Amruthahalli in Ward .07, Byatarayanapura.
Agency : Sri.B.Girish, #227, 32 A Cross, 7th Block, Jayanagara, Bangalore-560011.
Customer's Reference : BBMP/EE/BTP/WO/129/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-01-2019
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 22/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Cement Concrete Pavement	M20	15/01/2019	22/01/2019	151.32 X 151.18 X 150.94	22876	8.436	415.6	18.2	18.3
2	Cement Concrete Pavement	M20	15/01/2019	22/01/2019	149.80 X 151.76 X 149.96	22732	8.775	419.7	18.5	
3	Cement Concrete Pavement	M20	15/01/2019	22/01/2019	151.07 X 150.91 X 150.85	22798	8.015	415.5	18.2	

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15/1/19 N.D
A.E. (127)

15/1/19

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Authorized Signatory
Quality Manager



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Customer's Reference : BBMP/EE/BTP/WO/129/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-01-2019
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M20	15/01/2019	12/02/2019	149.25 X	22520	8.842	530.8	23.6	23.2
					150.88 X					
					151.63					
2	Cement Concrete Pavement	M20	15/01/2019	12/02/2019	151.16 X	22971	8.476	518.2	22.6	
					151.97 X					
					151.54					
3	Cement Concrete Pavement	M20	15/01/2019	12/02/2019	151.18 X	22960	8.184	541.4	23.6	
					151.87 X					
					150.87					

Note:

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AE (W&I)

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Authorized Signatory
Quality Manager



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